

**Abstract**

A magnesium based alloy containing at least 86 wt% Mg; 4.8 to 9.2 wt% aluminum, 0.08 to 0.38 wt% manganese, 0.00 to 0.9 wt% zinc, 0.2 to 1.2 wt% calcium, 0.05 to 1.4 wt% strontium, and 0.00 to 0.8 wt% rare earth elements. The alloy may also comprise up to 0.02 wt% zirconium and up to 0.001 wt% beryllium.